

$$\langle v' v \rangle_{1-ir} = \text{[Diagram 1]} + \text{[Diagram 2]} \quad (1)$$

Diagram 1: A bubble diagram with a solid loop and a dashed line extending from the right vertex. Diagram 2: A bubble diagram with a dashed loop and a dashed line extending from the right vertex.

$$\langle \theta' \theta \rangle_{1-ir} = \text{[Diagram 1]} + \text{[Diagram 2]} \quad (2)$$

Diagram 1: A bubble diagram with a dashed loop and a solid line extending from the right vertex. Diagram 2: A bubble diagram with a solid loop and a solid line extending from the right vertex.

$$\langle v' vv \rangle_{1-ir} = \text{[Diagram 1]} + \text{[Diagram 2]} + \text{[Diagram 3]} + \text{[Diagram 4]}$$

Four triangle diagrams with different internal line styles (solid/dashed) and arrow directions. In all, the top vertex has a downward arrow, and the bottom-left vertex has an incoming line from the left.

$$\langle v' \theta \theta \rangle_{1-ir} = \text{[Diagram 1]} + \text{[Diagram 2]} + \text{[Diagram 3]} + \text{[Diagram 4]}$$

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$$\langle \theta \theta' v \rangle_{1-ir} = \text{[Diagram 1]} + \text{[Diagram 2]} + \text{[Diagram 3]} + \text{[Diagram 4]}$$

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$$\begin{array}{c} \text{---} \blacktriangleright \bullet \text{---} \text{---} \text{---} \bullet \text{---} \text{---} \end{array} = \frac{\omega_0 \nu_0^3 S_d \delta_{ij} P^2}{z 4 k_0 (2\pi)^d} * \frac{d-2}{d^2} \quad (3)$$

$$\begin{array}{c} \text{---} \blacktriangleright \bullet \text{---} \text{---} \text{---} \bullet \text{---} \text{---} \end{array} = \frac{-D_0 S_d P^2 \delta_{ij}}{(2\pi)^d y 4 \nu_0^2} * \frac{d^2 - d + 2}{d^2} \quad (4)$$